#### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 25 August 2005 (25.08.2005)

**PCT** 

# (10) International Publication Number WO 2005/077835 A1

(51) International Patent Classification<sup>7</sup>: 1/66, 1/72, 9/00, 1/48, 11/14

C02F 1/52,

(21) International Application Number:

PCT/IL2005/000172

(22) International Filing Date: 10 February 2005 (10.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(**30**) **Priority Data:** 160384

12 February 2004 (12.02.2004) IL

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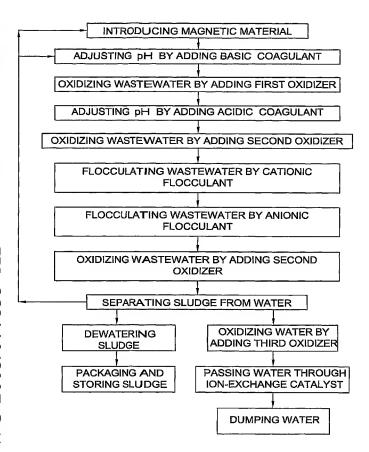
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR TREATMENT OF INDUSTRIAL WASTEWATER



(57) Abstract: A system and method for treatment of wastewater containing heavy metals, oil products, detergents, phenols, dyes, complexions, complexionates, etc. are described. The system includes a static mixer configured for continuous mixing the wastewater supplied thereto with desired reagents; a feeder of a magnetic powder; at least one coagulator apparatus; at least one oxidizer apparatus; at least one flocculant apparatus; and a magnetic separator configured for applying a magnetic field across an effluent of the wastewater and separating the magnetic sludge from the water. The method includes introducing powder of a ferromagnetic particulate material into the wastewater; adjusting a value of a pH of the wastewater, to form a liquid effluent of the wastewater having an adjusted value of the pH; oxidizing the wastewater having an adjusted value of the pH; flocculating the wastewater, to form flakes of magnetic sludge in water; and separating the magnetic sludge from the water.

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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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